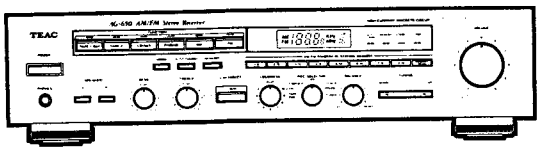
TEAC®



SERVICE MANUAL

AG-650/AG-350

AM/FM Stereo Receiver

CAUTION

⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

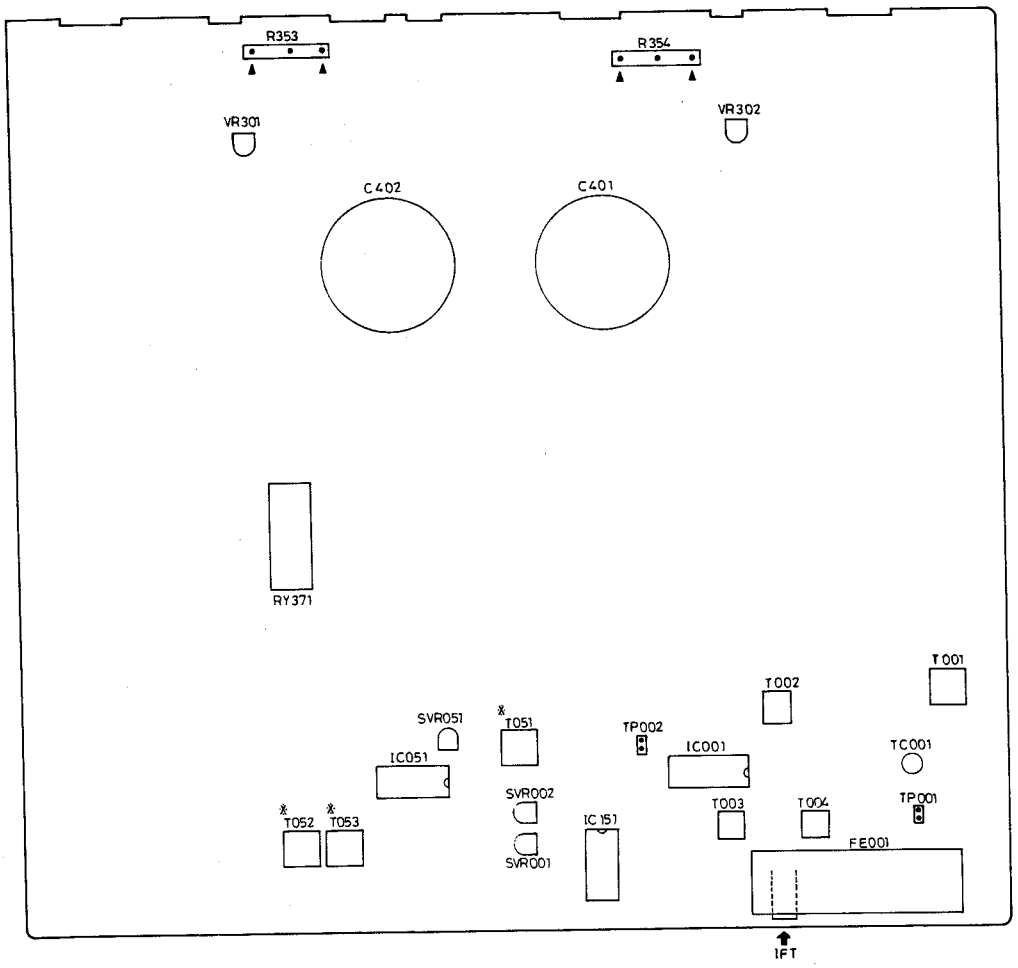
5704042000

SPECIFICATIONS

Amplifier Section	
Output Power	
AG-650	150W + 150W (Dynamic Power) 65W + 65W (RMS, both channels driven into 8 ohms from 40 Hz to 20 kHz with no more than 0.05% total harmonic distortion.)
AG-350	90W + 90W (Dynamic Power) 35W + 35W (RMS, both channels driven into 8 ohms from 40 Hz to 20 kHz with no more than 0.05% total harmonic distortion.)
Input Sensitivity/Impedance	PHONO: 2.5 mV/47k ohms CD/AUX, TAPE: 150 mV/30k ohms
Frequency Response	20 Hz – 20 kHz (PHONO) 20 Hz – 30 kHz (CD/AUX, TAPE)
Total Harmonic Distortion	0.05%
Signal-to-Noise Ratio (IHF A Network)	
AG-650	PHONO: 78 dB CD/AUX, TUNER, TAPE; 98 dB
AG-350	PHONO: 77 dB CD/AUX, TUNER, TAPE; 95 dB
Tone Control	Bass: ±8 dB at 100 Hz Treble: ±8 dB at 1 kHz
Loudness Control	–16/–24/–17 dB at 100 Hz/1 kHz/10 kHz
FM Tuner Section	
Tuning Range	87.50 MHz – 108.00 MHz (50 kHz steps)
Usable Sensitivity (S/N = 26 dB)	Mono 11.2 dBf
AM Suppression Ratio (1 kHz)	55 dB
Capture Ratio	2 dB
Selectivity (at 98 MHz)	60 dB ±300 kHz
Image Rejection (at 98 MHz)	70 dB
Harmonic Distortion (1 kHz)	Mono 0.2% Stereo 0.5%
Stereo Separation (1 kHz)	40 dB
Signal-to-Noise Ratio	Mono 73 dB/Stereo 68 dB
AM Tuner Section	
Tuning Range	522 kHz – 1,611 kHz (9 kHz steps)
Usable Sensitivity	500 μV/m
Selectivity	32 dB/±9 kHz
Image Rejection (1 kHz)	46 dB
Harmonic Distortion	0.5%
Signal-to-Noise Ratio	50 dB
General	
Power Requirements	
AG-650	220 V AC, 50 Hz, 280W
AG-350	220 V AC, 50 Hz, 180W
Dimensions (WxHxD)	435 x 105 x 361 mm (17-1/8" x 4-1/8" x 14-3/16")
Weight	
AG-650	8.2 kg (18.08 lbs.) net
AG-350	7.2 kg (15.87 lbs.) net
Standard Accessory	AM Loop Antenna

* Improvements may result in specification or feature changes without notice.

ADJUSTMENT AND CHECKS



AMPLIFIER SECTION

Condition

AC power line voltage: 220 V
Power line frequency: 50 Hz
Input: No signal
Output load: 8 ohms

- **Idling current**
  1. Set the Power switch to ON and wait for 3 minutes for preheating.
  2. Connect a DVM (Digital Voltage Meter) across R353 (0.22 ohms x 2 = 0.44 ohms).
  3. Adjust SVR301 (L CH) so that the DVM reads 7 ±0.1 mV.
  4. Connect the DVM across R354 (0.22 ohms x 2 = 0.44 ohms).
  5. Adjust SVR302 (R CH) so that the DVM reads 7 ±0.1 mV.

AM SECTION

- **Tuning voltage adjustment**

  Input: No signal

  1. Adjust TC001 temporarily to near the center position.
  2. Connect a DVM (Digital Voltage Meter) to TP001.
  3. Set the receiving frequency display to 522 kHz.
  4. Adjust T004 so that the DVM reads 1 V.
  5. Set the receiving frequency display to 1611 kHz.
  6. Check that the DVM reads between 7 and 8 V.

- **IFT adjustment**

  Input: SSG (Standard Signal Generator)

  Output: Range in which the output varies linearly to the receiver output (the range in which the AGC does not operate).
  Frequency: 999 kHz
  Modulation: 30%, 400 Hz

  1. Connect a LM (Level Meter) to the TAPE OUT terminal.
  2. Set the receiving frequency display to 999 kHz.
  3. Adjust T003 to maximize the LM reading.

- **Tracking adjustment**

  Input: SSG (Standard Signal Generator)

  Output: Range in which the output varies linearly to the receiver output (the range in which the AGC does not operate).
  Frequencies: 603 kHz, 1404 kHz
  Modulation: 30%, 400 Hz

  1. Connect a LM (Level Meter) to the TAPE OUT terminal.
  2. Set the receiving frequency display to 603 kHz.
  3. Adjust T001 to maximize the LM reading.
  4. Set the receiving frequency display to 1404 kHz.
  5. Adjust TC001 to maximize the LM reading.
  6. Repeat steps 2 to 5 above.

- **Auto-stop level adjustment**

  Input: SSG (Standard Signal Generator)

  Output: 60 dBu/m
  Frequency: 999 kHz
  Modulation: 30%, 400 Hz

  1. Adjust SVR001 to the position where the TUNED indicator just starts to light.

FM SECTION

- **Tuning voltage adjustment/tracking adjustment**

  The FM front-end components have been adjusted at the factory and should not be adjusted in the field.

- **IFT adjustment**

  Input: SSG (Standard Signal Generator)

  Output: 0 to 5 dBu
  Frequency: 98 MHz
  Modulation: 40 kHz (Dev.), 1 kHz

  1. Connect a LM (Level Meter) to the TAPE OUT terminal.
  2. Set the receiving frequency display to 98 MHz.
  3. Adjust IFT inside FE001 (FM front-end) to maximize the LM reading.

- **Detector adjustment**

  Input: SSG (Standard Signal Generator)

  Output: 54 dBu
  Frequency: 98 MHz
  Modulation: 40 kHz (Dev.), 1 kHz

  1. Connect a DVM (Digital Voltage Meter) to TP002.
  2. Set the receiving frequency display to 98 MHz.
  3. Adjust T002 so that the DVM reads 0 ±1 mV.

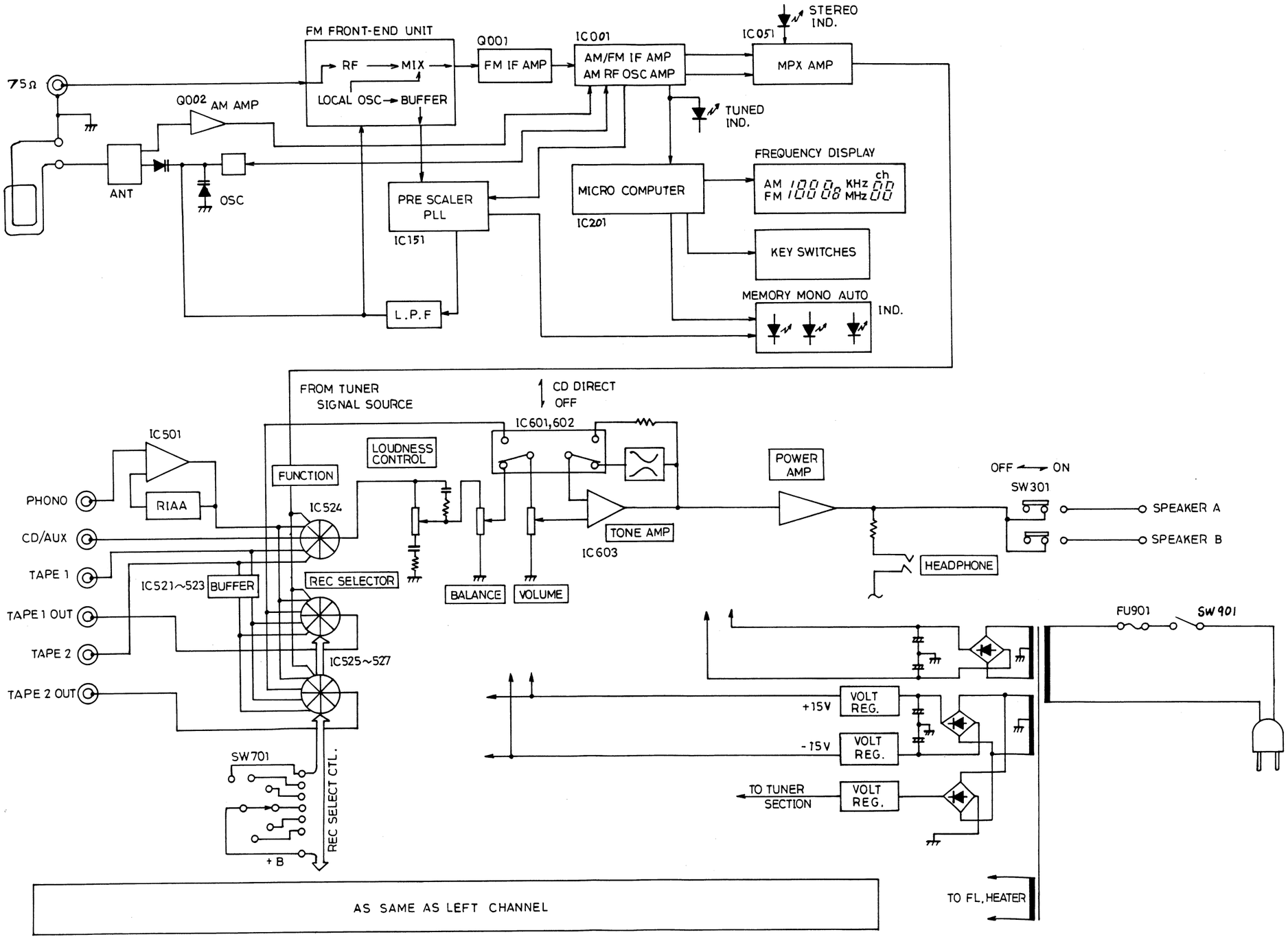
- **Separation adjustment**

  Input: SSG (Standard Signal Generator)

  Output: 54 dBu
  Frequency: 98 MHz
  Modulation: Main 40 kHz (Dev.)
  Pilot 6 kHz (Dev.)

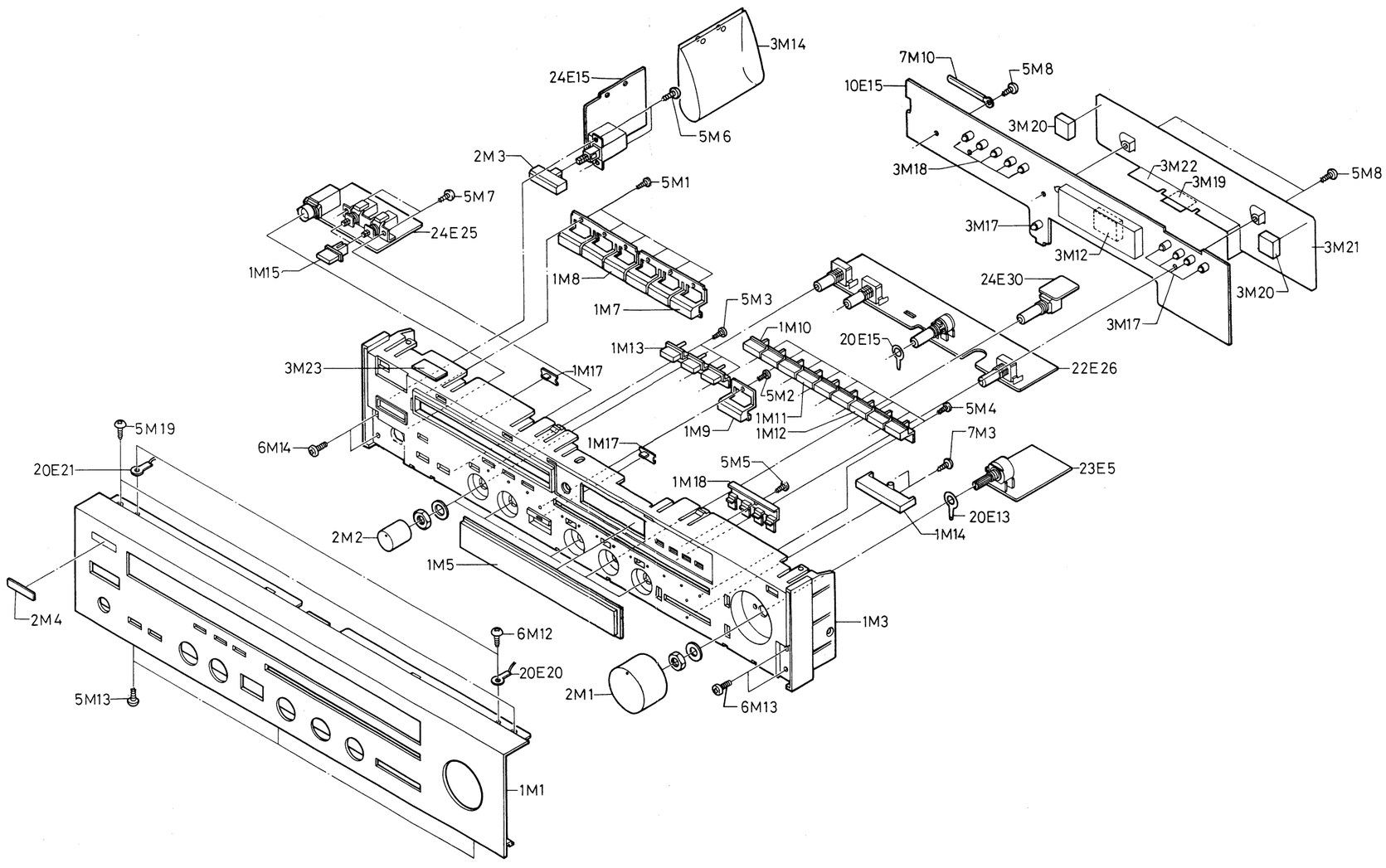
  1. Set the FM Mono switch to STEREO.
  2. Connect a LM (Level Meter) to the TAPE OUT terminal.
  3. Set the receiving frequency display to 98 MHz.
  4. Set the stereo modulator for the R signal.
  5. Adjust SVR051 to minimize the LM reading for the L signal.
  6. Set the stereo modulator for the L signal.
  7. Check that the LM reading for the R signal is almost the same as that for the L signal in step 5.

BLOCK DIAGRAM



EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW(FRONT PANEL ASSY)



EXPLODED VIEW (FRONT PANEL ASSY)

REF.NO.	PARTS NO.	DESCRIPTION
IM 1	*9A01200800	FRONT PANEL [AG-650]
	*9A01200900	FRONT PANEL [AG-350]
IM 3	*9A01200700	FRONT BASE
IM 5	*9A01201800	DISPLAY GLASS
IM 7	9A01201900	TACT BUTTON
IM 8	9A01202000	TACT BUTTON
IM 9	9A01204200	TACT BUTTON
IM10	9A01202100	TACT BUTTON
IM11	9A01202200	TACT BUTTON
IM12	9A01202300	TACT BUTTON
IM13	9A01202400	TACT BUTTON
IM14	9A01203500	TACT BUTTON
IM15	9A01203600	PUSH BUTTON
IM17	*9A01203700	LED LENS
IM18	*9A01354300	LED LENS
2M 1	9A01046000	VR KNOB (35)
2M 2	9A01046100	VR KNOB (16)
2M 3	5800752300	POWER BUTTON B
2M 4	*5720175500	EMBLEM
3M12	*9A01203200	FC CUSHION
3M14	*9A01203300	FUSE COVER
3M17	*9A01203100	WASHER
3M18	*9A01274900	STOPPER
3M19	*9A01275000	INSULATION SHEET
3M20	*9A01275100	CUSION
3M21	*9A01203000	SHIELD COVER
3M22	*9A01204800	SHIELD COVER
3M23	*9A00606400	SPACER
5M 1-M 5	*9A00392900	TAP SCREW TBB+26X08-Y
5M 6-M 8	*9A00315700	TAP SCREW TPM+30X08-Y
5M13,M19	*9A00314000	TAP SCREW TPM+30X08-B
6M12	*9A00326900	TAP SCREW TSB+30X06-B
6M13,M14	*9A00629500	TAP SCREW TSB+30X08-Y
7M 3	*9A01208900	TAP SCREW ZC+10X30X08-2Y
7M10	*9A00316000	SNAKE LUG
10E15	*9A01233800	DISPLAY PCB ASSY [AG-650]
	*9A01234100	DISPLAY PCB ASSY [AG-350]
20E13	*9A01354000	CABLE ASSY
20E15	*9A01205200	CABLE ASSY
20E20	*9A01274600	CABLE ASSY
20E21	*9A01354100	CABLE ASSY
22E26	*9A01190600	TONE PCB ASSY [AG-650]
	*9A01191400	TONE PCB ASSY [AG-350]
23E 5	*9A01190700	VOLUME PCB ASSY [AG-650]
	*9A01191500	VOLUME PCB ASSY [AG-350]
24E15	*9A01191000	POWER SW PCB ASSY [AG-650]
	*9A01191800	POWER SW PCB ASSY [AG-350]
24E25	*9A01191100	SP SWITCH PCB ASSY [AG-650]
	*9A01191900	SP SWITCH PCB ASSY [AG-350]
24E30	*9A01191200	REC. SEL. PCB ASSY [AG-650]
	*9A01192000	REC. SEL. PCB ASSY [AG-350]

Parts marked with *require longer delivery time.

INCLUDED ACCESORIES

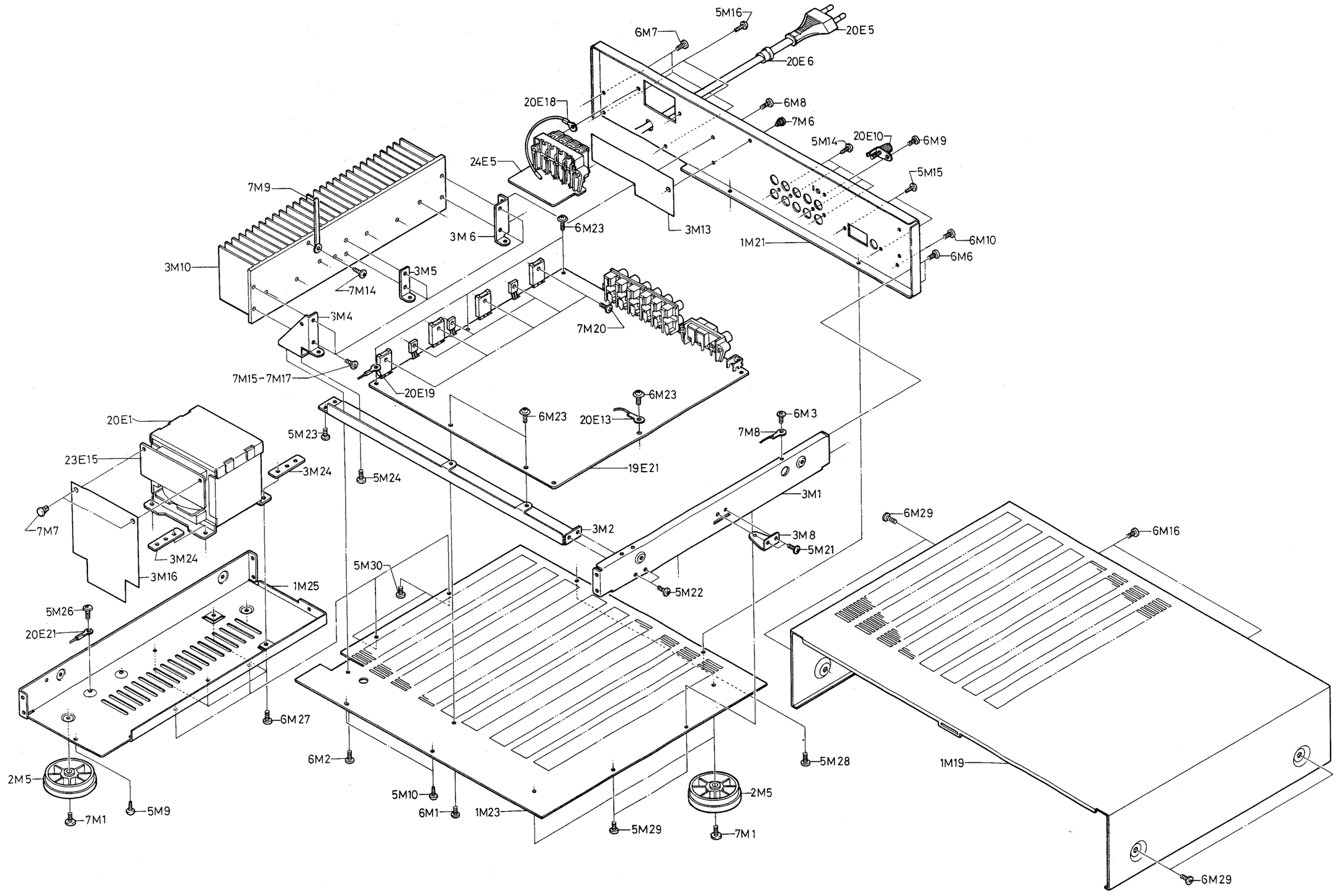
REF.NO.	PARTS NO.	DESCRIPTION
	*9A01189300	OWNER'S MANUAL [AG-650/350]
	*9A01209600	LOOP ANTENNA

EXPLODED VIEW (CABINET & CHASSIS ASSY)

REF.NO.		PARTS NO.	DESCRIPTION	REMARKS
1M19		*9A01201000	CABINET	
1M21		*9A01201100	REAR PANEL [AG-650]	
		*9A01201200	REAR PANEL [AG-350]	
1M23		*9A01201300	BOTTOM BOARD	
1M25		*9A01201400	TRANSFARMER CHASSIS	
2M 5		*9A01046200	FOOT ASSY	
3M 1		*9A01202500	SIDE CHASSIS	
3M 2		*9A01202600	CENTER CHSSSIS	
3M 4		*9A01203800	HEAT SINK METAL FITTING F	
3M 5		*9A01203900	HEAT SINK METAL FITTING C	
3M 6		*9A01204000	HEAT SINK METAL FITTING R	
3M 8		*9A01204100	PCB METAL FITTING	
3M10		*9A01202800	HEAT SINK [AG-650]	
		*9A01202700	HEAT SINK [AG-350]	
3M13		*9A01204600	INSULATION COVER	
3M16		*9A01204500	INSULATION COVER	
3M24		*9A01204400	TRANSFORMER METAL FITTING	
5M 9M		*9A00315700	TAP SCREW TPM+30X08-Y	
5M10		*9A00315700	TAP SCREW TPM+30X08-Y	
5M14-M16		*9A00314000	TAP SCREW TPM+30X08-B	
5M21-M24		*9A00315800	TAP SCREW TSB+30X06-Y	
5M26		*9A00315800	TAP SCREW TSB+30X06-Y	
5M28-M30		*9A00315800	TAP SCREW TSB+30X06-Y	
6M 1-M 3		*9A00315800	TAP SCREW TSB+30X06-Y	
6M6-M10		*9A00326900	TAP SCREW TSB+30X06-B	
6M16		*9A00389600	TAP SCREW TSB+30X08-B	
6M23		*9A00315900	TAP SCREW TSC+30X08-Y	
6M27		*9A01207900	TAP SCREW TSB+40X08-Y	
6M29		*9A00334700	TAP SCREW TSB+40X08-B	
7M 1		*9A00391300	TAP SCREW TSB+40X10-Y	
7M 6,M 7		*9A01205500	NYLON PUSH RIVET	
7M 8		*9A00292300	LUG	
7M 9		*9A00316000	SNAKE LUG	
7M14-M17		*9A00317300	TAP SCREW TBB+30X08-Y	
7M20		*9A01276500	TAP SCREW TBC+30X12-Y	
19E21		*9A01190400	MAIN AMP PCB ASSY [AG-650]	Ref. Pages 19
		*9A01190500	MAIN AMP PCB ASSY [AG-350]	Ref. Pages 19
20E 1	⚠	9A01200400	POWER TRANSFORMER [AG-650]	
	⚠	9A01200500	POWER TRANSFORMER [AG-350]	
20E 5	⚠	*9A01193100	LINE CORD	
20E 6	⚠	*9A00325300	CORD STOPPER	
20E10		*9A01208800	GROUND TERMINAL	
20E13		*9A01205100	CABLE ASSY	
20E18		*9A00285800	CABLE ASSY	
20E19		*9A01274700	CABLE ASSY	
20E21		*9A01354100	CABLE ASSY	
20E25		*9A01274800	GLASS TUBE	
23E15		*9A01190800	TRANS. PCB ASSY [AG-650]	Ref. Pages 20
		*9A01191600	TRANS. PCB ASSY [AG-350]	Ref. Pages 20
24E 5		*9A01190900	SP TERMI. PCB ASSY [AG-650]	Ref. Pages 20
		*9A01191700	SP TERMI. PCB ASSY [AG-350]	Ref. Pages 20

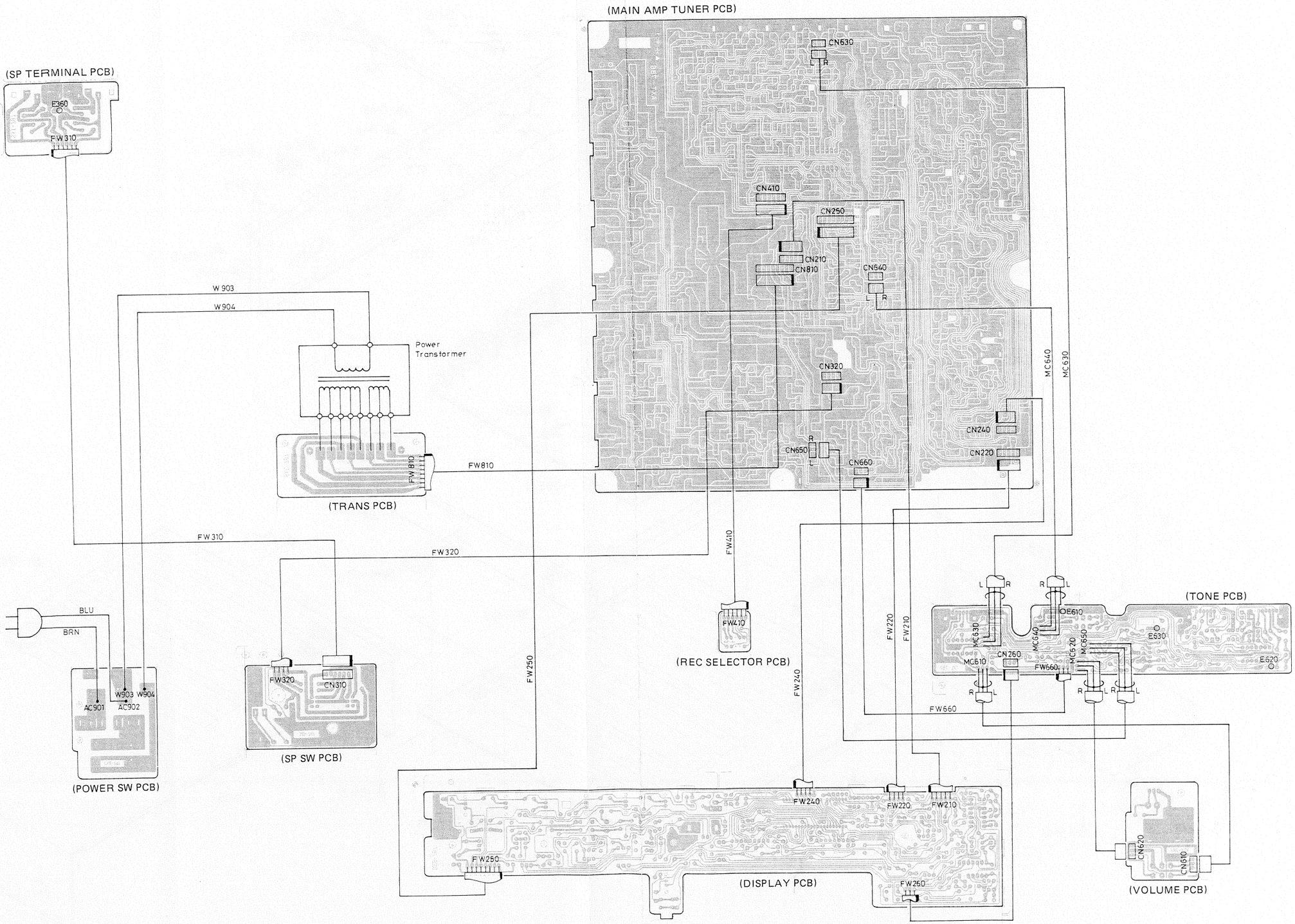
Parts marked with *require longer delivery time.

EXPLODED VIEW(CABINET & CHASSIS ASSY)



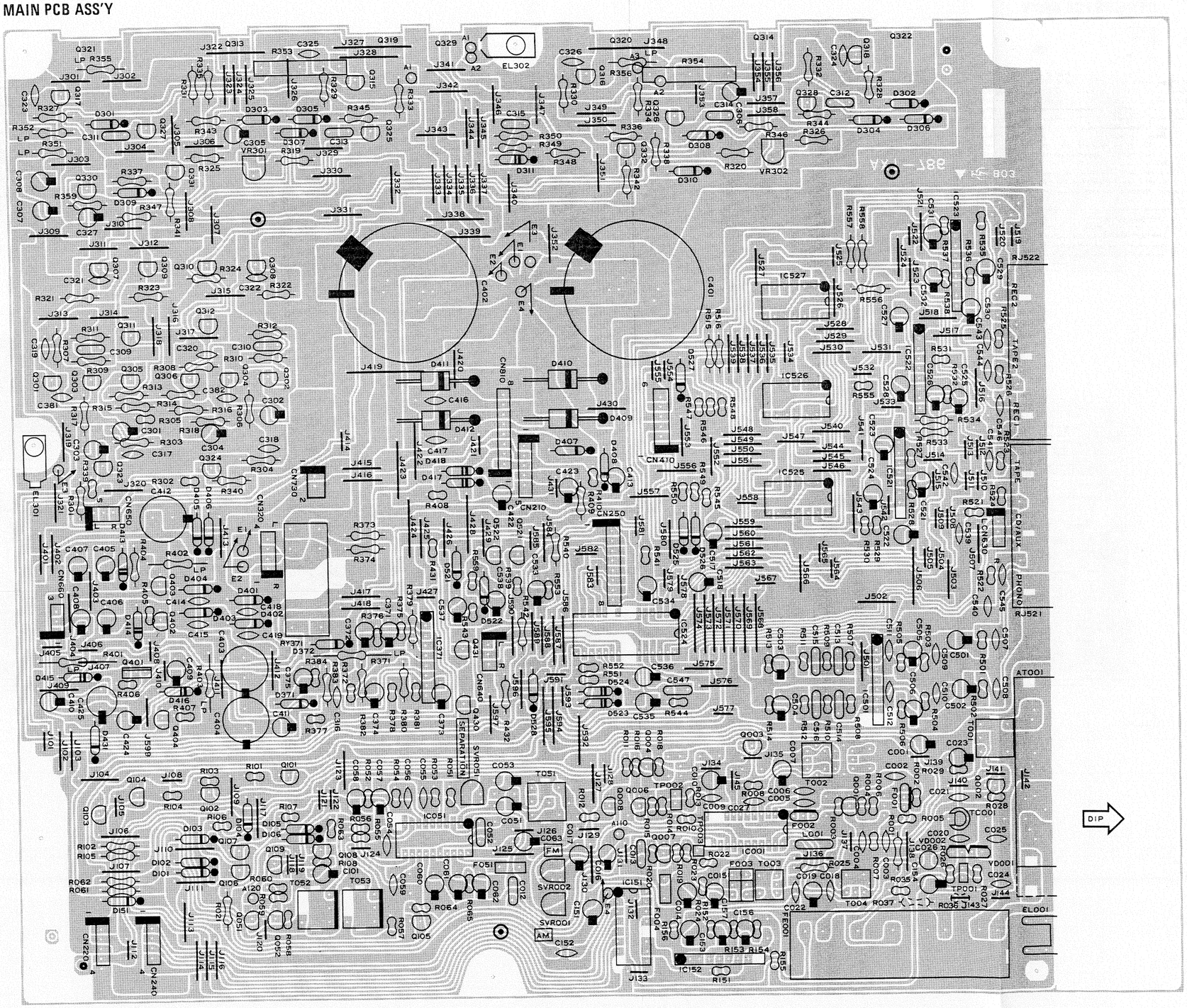
AG-650/AG-350

WIRING DIAGRAM

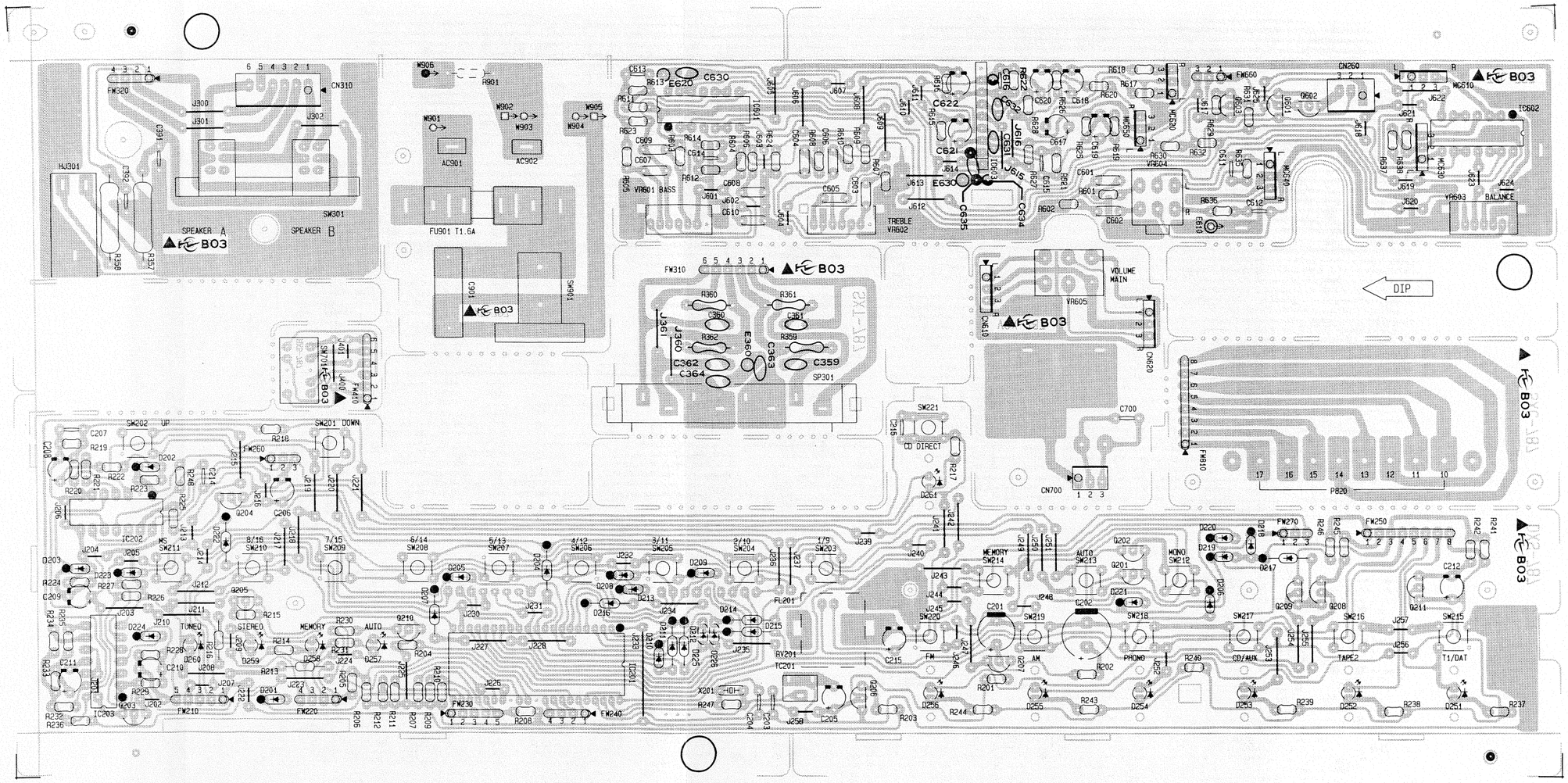


PC BOARDS AND PARTS LIST

MAIN PCB ASS'Y



OTHERS PCB ASS'Y


CN310
FW320
SW301
SPEAKER A
SPEAKER B
B03
FU901 T1.6A
SW904
AC901
AC902
W901
W902
W903
W904
W905
W906
R901
FW310
SP301
VOLUME MAIN
VR605
CN610
CN620
CN700
C700
SW221
CD DIRECT
FW660
CN250
MC610
MC620
MC630
MC640
MC650
TC602
VR601 BASS
TREBLE VR602
VR604
VR603 BALANCE
DIP
FW410
SW704
SW202 UP
SW201 DOWN
FW260
FW210
FW220
FW230
FW240
FW270
FW250
P820
IC202
IC203
MS SW211
8/16 SW210
7/15 SW209
6/14 SW208
5/13 SW207
4/12 SW206
3/11 SW205
2/10 SW204
1/9 SW203
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STEREO
MEMORY
AUTO
MEMORY SW214
AUTO SW213
MONO SW212
SW220
SW219
SW218
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SW216
SW215
FM
AM
PHONO
CD/AUX
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T1/DAT
FL201
RV201
TC201
X201
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MAIN AMP TUNER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01190400	MAIN AMP TUNER PCB ASSY [AG-650]
	*9A01190500	MAIN AMP TUNER PCB ASSY [AG-350]
	*9A01233700	MAIN AMP TUNER PCB
IC 1	9A01198300	IC LA1266
IC 51	9A00598600	IC LA3401
IC151	9A01207700	IC TC9172AP
IC152	9A01200200	IC NJM2904S
IC371	9A01207500	IC TA7317P
IC501	9A01200300	IC NJM4565SB
IC521-523	9A01200300	IC NJM4565SB
IC524	9A01198700	IC LC7818
IC525-527	9A01198600	IC LC4966
Q 1	9A00659900	TRANSISTOR 2SC2668-O,Y
Q 2	9A01211700	TRANSISTOR 2SK161-Y,GR-RT
Q 3,101	9A01210000	TRANSISTOR 2SA1345
Q 4	9A01211100	TRANSISTOR 2SC3399
Q 6	9A01211800	TRANSISTOR 2SK246-Y,GR
Q 7, 8	9A01210700	TRANSISTOR 2SC1815-Y,GR
Q 51, 52	9A00308100	TR.,2SC2878A/B
Q102	9A01210400	TRANSISTOR 2SA966-O,Y
Q103,104	9A01211300	TRANSISTOR 2SC536SPAE,F
Q106-108	9A01275400	TRANSISTOR RN-1204-RT
Q109,430	9A01210000	TRANSISTOR 2SA1345
Q301-306	9A00657000	TRANSISTOR 2SC2240-GR
Q307,308	9A01209900	TRANSISTOR 2SA1145-O,Y
Q309,310	9A01211000	TRANSISTOR 2SC2705-O,Y
Q311,312	9A00657000	TRANSISTOR 2SC2240-GR
Q315,316	9A01210100	TRANSISTOR 2SA1358-O,Y [AG-650]
	9A01210300	TRANSISTOR 2SA1358-O,Y [AG-350]
Q317,318	9A01211200	TRANSISTOR 2SC3421-O,Y [AG-650]
	9A01210900	TRANSISTOR 2SC3421-O,Y [AG-350]
Q323,324	9A00308100	TR.,2SC2878A/B
Q325,326	9A01209800	TRANSISTOR 2SA1015-Y,GR
Q327,328	9A00592300	TRANSISTOR 2SC1815-GR
Q330	9A00657100	TRANSISTOR 2SA970-GR
Q331,332	9A00657000	TRANSISTOR 2SC2240-GR
Q401	9A01211400	TRANSISTOR 2SD2012
Q402	9A01210300	TRANSISTOR 2SA965-O,Y
Q403	9A01210900	TRANSISTOR 2SC2235-O,Y
Q404	9A00598400	TRANSISTOR 2SD592NC/Q/R
Q431,522	9A01211100	TRANSISTOR 2SC3399
Q521	9A01210000	TRANSISTOR 2SA1345
VD 1, 2	9A00659800	DIODE KV1236Z-Z1
D101-106	9A01209500	DIODE IN4148
D151	9A01209500	DIODE IN4148
D301-310	9A01209500	DIODE IN4148

MAIN AMP TUNER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
D311	9A00715300	ZENER DIODE ZD50-060 1/2W
D371,408	9A01209500	DIODE IN4148
D372	9A00275400	DIODE IN4002
D401-407	9A00275400	DIODE IN4002
D409-412	9A00275300	DIODE IN5402-F
D413,414	9A01209200	ZENER DIODE ZD50-157 1/2W
D415	9A00653600	ZENER DIODE ZD50-127 1/2W
D416	9A00598100	ZENER DIODE ZD50-062 1/2W
D417	9A01209300	ZENER DIODE ZD50-215 1/2W
D418	9A01209000	ZENER DIODE ZD50-040 1/2W
D431	9A01209500	DIODE IN4148
D521,522	9A01209500	DIODE IN4148
D523,524	9A01209100	ZENER DIODE ZD50-070 1/2W
D525-528	9A01209500	DIODE IN4148
L 1	9A00595200	INDUCTOR (1MH)
F 1, 2	9A01206400	CERAMIC FILTER
F 3	9A01206500	CERAMIC FILTER
F 4	9A01193500	CERAMIC FILTER
F 51	9A01193700	CERAMIC FILTER
T 1	9A00600900	MW ANT COIL
T 2	9A00601400	FM IFT
T 3	9A00601300	AM IFT
T 4	9A00660100	MW OSC COIL
T 51	9A00285500	FILTER COIL
T 52, 53	9A00601200	FILTER BLOCK
R351,352	9A01195600	R. FLAME PROOF FR25ST151J
R353,354	9A01199000	R. CEMENT MPC725R22KX2LF
R355,356	9A01195700	R. FLAME PROOF FR50ST221J
R371	9A01205800	R. METAL OXIDE SA-2WT152J
R401	9A01205900	R. METAL OXIDE SA-2WT270J
R402,403	9A01205700	R. METAL OXIDE SA-1WT150J
SVR 1, 2	9A00612600	R. SEMI-VARIABLE
SVR51	9A00612600	R. SEMI-VARIABLE
VR301,302	9A01206800	R. SEMI-VARIABLE
TC 1	9A00282800	C. TRIMMER CTZ51C135
RY371	9A01193200	RELAY
TP 1, 2	9A01196800	MINI TERMINAL PLATE
AT 1	9A01208700	ANTENNA TERMINAL
FE 1	9A01195400	FM FRONTEND
RJ521,522	9A01208500	RCA JACK 6P
CM650	9A01193600	CONNECTOR
CM660	9A01212900	CONNECTOR
CN210	9A01213100	CONNECTOR
CN220,240	9A01213000	CONNECTOR
CN250,810	9A01213300	CONNECTOR
CN320	9A01213000	CONNECTOR
CN410	9A01213200	CONNECTOR
CN630,640	9A01193600	CONNECTOR
EL 1	9A00307200	GND LUG
EL301	9A00275100	GND LUG
	9A01209400	SOLDER-PLATED WIRE

Parts marked with *require longer delivery time.

DISPLAY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01233800	DISPLAY PCB ASSY [AG-650]
	*9A01234100	DISPLAY PCB ASSY [AG-350]
	*9A01194400	DISPLAY PCB
IC201	9A01207800	IC TC9303AN-011
IC202	9A01198400	IC LC4013B
IC203	9A01198500	IC LC4081B
Q201,202	9A01210000	TRANSISTOR 2SA1345
Q203	9A01211100	TRANSISTOR 2SC3399
Q204-209	9A01211300	TRANSISTOR 2SC536SPAE,F
Q210	9A01210700	TRANSISTOR 2SC1815-Y,GR
Q211	9A01210200	TRANSISTOR 2SA608SPAE,F
D201-203	9A00720600	DIODE GMA01
D204,207	9A01209500	DIODE 1N4148
D205,206	9A00720600	DIODE GMA01
D208-210	9A00720600	DIODE GMA01
D211,212	9A01209500	DIODE 1N4148
D213	9A00720600	DIODE GMA01
D214-217	9A01209500	DIODE 1N4148
D218-221	9A00720600	DIODE GMA01
D222	9A01209500	DIODE 1N4148
D223,224	9A00720600	DIODE GMA01
D251-261	9A01206600	LED
X201	9A01196000	QUARTZ OSCILLATOR UNIT
FL201	9A01195500	FLUOPESCENCE LAMP
SW201-221	9A01206700	TACT SWITCH
	9A01203200	FC CUSHION
	9A01212200	3-LEAD, FLAT CABLE
	9A01212400	4-LEAD, FLAT CABLE
	9A01212500	4-LEAD, FLAT CABLE
	9A01212600	5-LEAD, FLAT CABLE
	9A01212800	8-LEAD, FLAT CABLE

TONE PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01190600	TONE PCB ASSY [AG-650]
	*9A01191400	TONE PCB ASSY [AG-350]
	*9A01208000	TONE PCB
IC601,602	9A01198600	IC LC4966
IC603	9A01200300	IC NJM4565SB
Q601	9A01210000	TRANSISTOR 2SA1345
Q602,603	9A01211100	TRANSISTOR 2SC3399
VR601,602	9A01194600	ROTARY POTENTIOMETER
VR603	9A01194700	ROTARY POTENTIOMETER
VR604	9A01194500	ROTARY POTENTIOMETER
MC610	9A01193900	MICRO SOCKET ASSY
MC620	9A01194300	MICRO SOCKET ASSY
MC630	9A01194000	MICRO SOCKET ASSY
MC640	9A01194200	MICRO SOCKET ASSY
MC650	9A01194100	MICRO SOCKET ASSY
CN260	9A01212900	CONNECTOR
	9A01205200	CABLE ASSY
	9A01212300	3-LEAD, FLAT CABLE

Parts marked with *require longer delivery time.

VOLUME PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01190700	VOLUME PCB ASSY [AG-650]
	*9A01191500	VOLUME PCB ASSY [AG-350]
	*9A01208100	VOLUME PCB
VR605	9A01194800	ROTARY POTENTIOMETER
CN610,620	9A01193600	CONNECTOR [AG-650]
CN610,620	9A00856400	CONNECTOR [AG-350]

TRANSFORMER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01190800	TRANS. PCB ASSY [AG-650]
	*9A01191600	TRANS. PCB ASSY [AG-350]
	*9A01207200	TRANSFORMER PCB
PT901	⚠9A01200400	POWER TRANSFORMER [AG-650]
PT901	⚠9A01200500	POWER TRANSFORMER [AG-350]
	9A01212100	8-LEAD, FLAT CABLE

SP TERMINAL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01190900	SP TERMI. PCB ASSY [AG-650]
	*9A01191700	SP TERMI. PCB ASSY [AG-350]
	*9A01207400	SP TERMINAL PCB
SP301	9A01208600	SOCKET 8P (S.P.)
	9A01212000	6-LEAD, FLAT CABLE

POWER SWITCH PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01191000	POWER SW PCB ASSY [AG-650]
	*9A01191800	POWER SW PCB ASSY [AG-350]
	*9A01193800	POWER SW PCB
SW901	⚠9A01206900	POWER SWITCH
C901	⚠9A01208300	C. METAL FILM YE103
FU901	⚠9A01195900	FUSE [AG-650]
FU901	⚠9A01195800	FUSE [AG-350]
AC901,902	9A00379800	GND LUG
	9A01213700	SOLDER PLATED WIRE
	9A01213600	SOLDER PLATED WIRE
	9A00279200	FUSE HOLDER

SP SWITCH PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01191100	SP SWITCH PCB ASSY [AG-650]
	*9A01191900	SP SWITCH PCB ASSY [AG-350]
	*9A01207300	SP SWITCH PCB
SW301	9A01207000	PUSH SWITCH
HJ301	9A01208400	HEADPHONE JACK
CN310	9A01213200	CONNECTOR
	9A01211900	4-LEAD, FLAT CABLE

REC. SELECTOR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01191200	REC. SEL. PCB ASSY [AG-650]
	*9A01192000	REC. SEL. PCB ASSY [AG-350]
	*9A01205600	REC. SELECTUR PCB
SW701	9A01207100	ROTARY SWITCH
	9A01212700	6-LEAD, FLAT CABLE

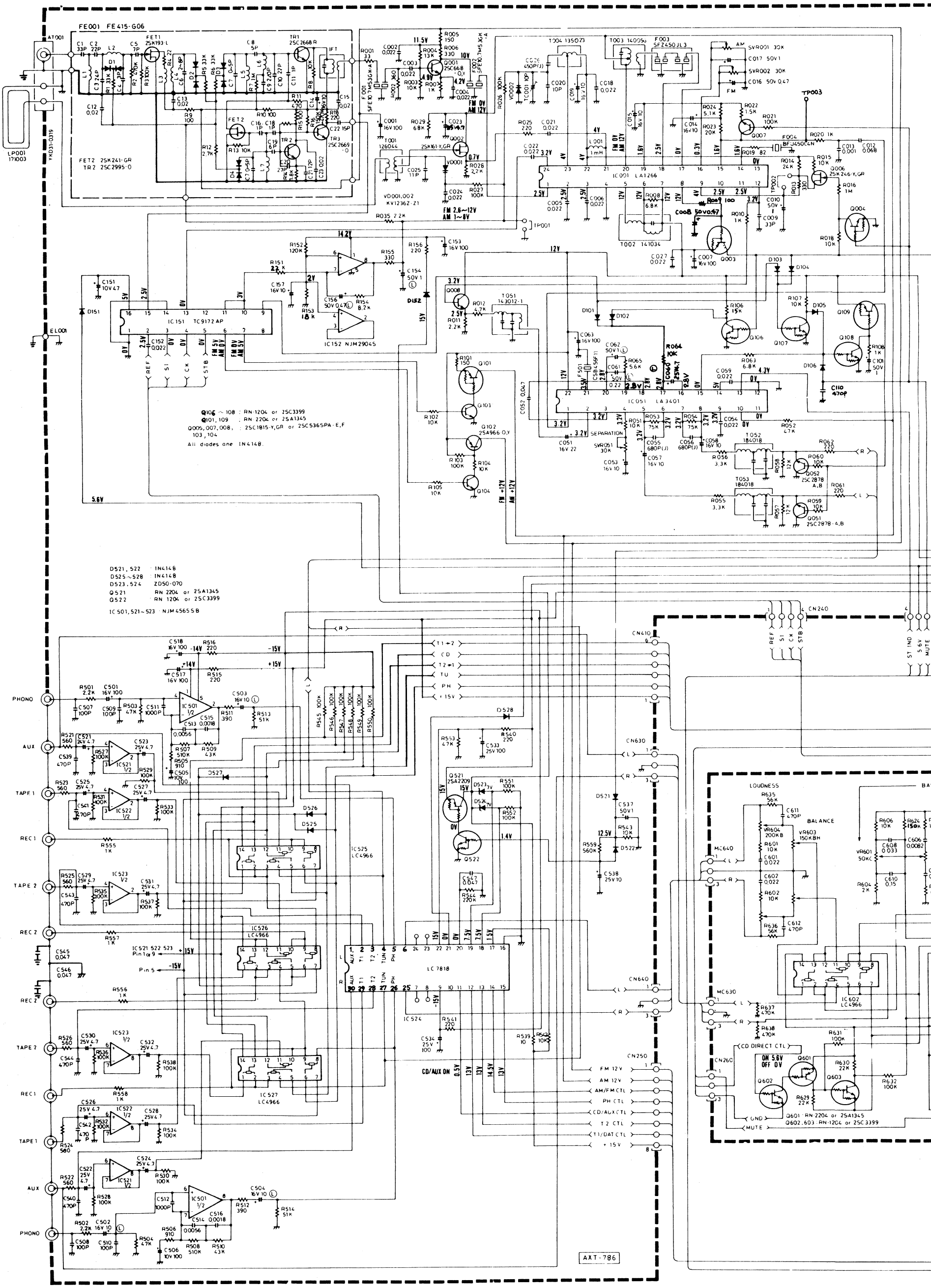
HEAT SHINK ASSY [AG-650]

REF.NO.	PARTS NO.	DESCRIPTION
	*9A01192100	HEAT SHINK ASSY
Q313,314	9A01210800	TRANSISTOR 2SC1846-R
Q319,320	9A01210500	TRANSISTOR 2SB1361-S,P
Q321,322	9A01211500	TRANSISTOR 2SD2052-S,P
Q329	9A01210800	TRANSISTOR 2SC1846-R
	9A01202800	HEAT SINK
	9A01203800	HEAT SINK METAL FITTING F
	9A01203900	HEAT SINK METAL FITTING C
	9A01204000	HEAT SINK METAL FITTING R

HEAT SHINK ASSY [AG-350]

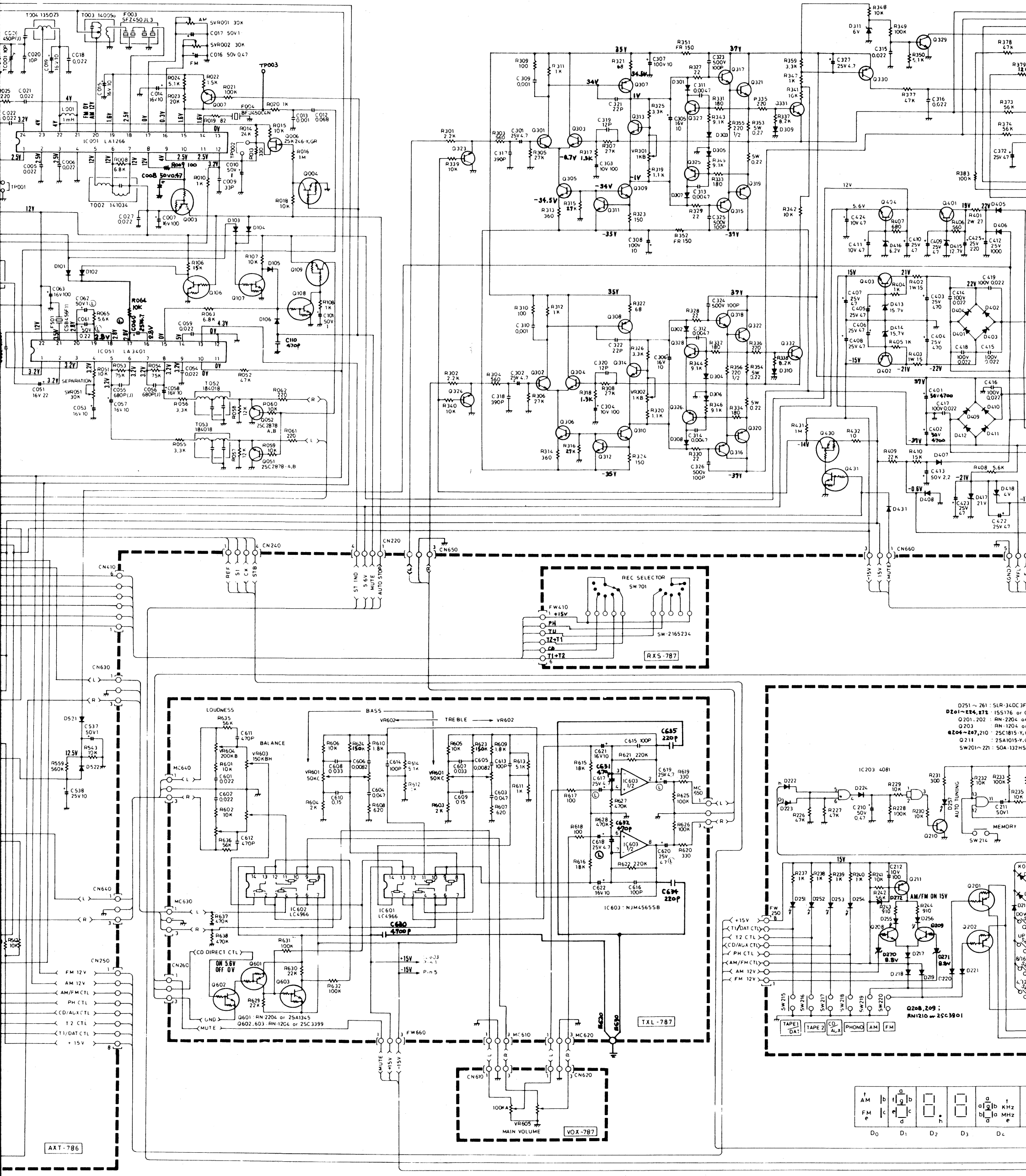
REF.NO.	PARTS NO.	DESCRIPTION
	*9A01192200	HEAT SHINK ASSY
Q313,314	9A01210800	TRANSISTOR 2SC1846-R
Q319,320	9A01210600	TRANSISTOR 2SB1371-S,P
Q321,322	9A01211600	TRANSISTOR 2SD2064-S,P
Q329	9A01210800	TRANSISTOR 2SC1846-R
	9A01202700	HEAT SINK
	9A01203800	HEAT SINK METAL FITTING F
	9A01203900	HEAT SINK METAL FITTING C
	9A01204000	HEAT SINK METAL FITTING R

Parts marked with *require longer delivery time.



NOTES

1. All resistors are 1/4 watts or 1/6 watts otherwise. Resistor values are in ohms M=1000K ohms).
2. All capacitors values are in microfarads. (F
3. Each D.C voltage shows the nominal v input signal.
4. ⚠ is Safety Part. Use only replacement by the manufacturer.
5. FR: FLAME PROOF RESISTOR.

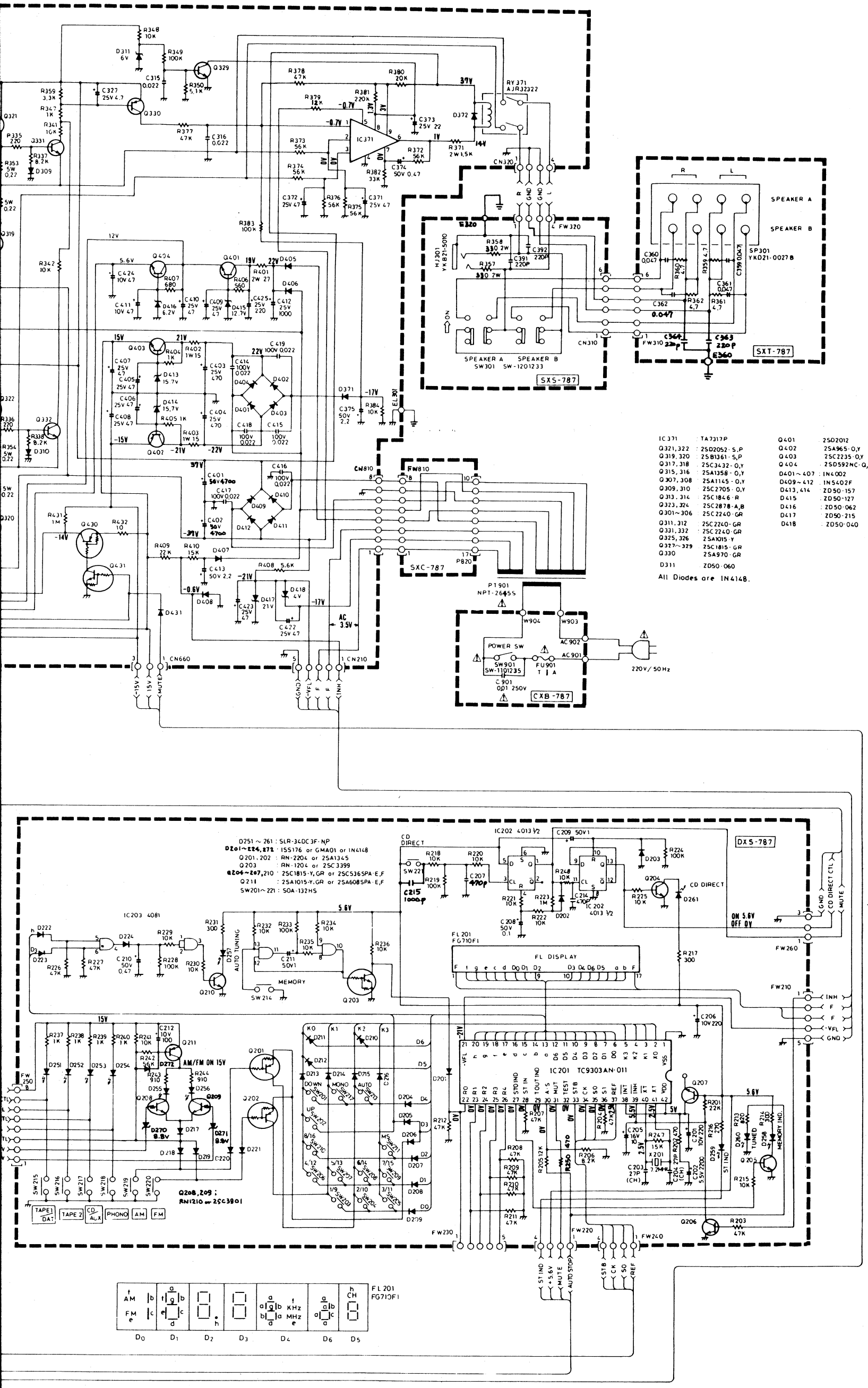


NOTES

1. All resistors are 1/4 watts or 1/6 watts 5% unless marked otherwise. Resistor values are in ohms (K=1000 ohms, M=1000K ohms).
2. All capacitors values are in microfarads. (P=picofarads).
3. Each D.C voltage shows the nominal values in volts no input signal.
4. ⚠ is Safety Part. Use only replacement parts recomended by the manufacturer.
5. FR: FLAME PROOF RESISTOR.

CAUTION

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamp or if the resistance from chassis to either side of the power cord is less than 500k ohms, the unit is defective.



IC371	TA7317P	Q401	2SD2012
Q321,322	2SD2052-S,P	Q402	2SA965-O,Y
Q319,320	2SB1361-S,P	Q403	2SC2235-O,Y
Q317,318	2SC3432-O,Y	Q404	2SD592NC-Q,R
Q315,316	2SA1358-O,Y	D401~407	IN4002
Q307,308	2SA1145-O,Y	D409~412	IN5402F
Q309,310	2SC2705-O,Y	D413,414	ZD50-157
Q313,314	2SC1846-R	D415	ZD50-127
Q323,324	2SC2878-A,B	D416	ZD50-062
Q301~306	2SC2240-GR	D417	ZD50-215
Q311,312	2SC2240-GR	D418	ZD50-040
Q331,332	2SC2240-GR		
Q325,326	2SA1015-Y		
Q327~329	2SC1815-GR		
Q330	2SA970-GR		
D311	ZD50-060		

All Diodes are IN4148.

D251 ~ 261 : SLR-340C3F-NP
D201~224,272 : 1SS176 or GMA01 or IN4148
Q201,202 : RN-2204 or 2SA1345
Q203 : RN-1204 or 2SC3399
Q204~207,210 : 2SC1815-Y,GR or 2SC536SPA-E,F
Q211 : 2SA1015-Y,GR or 2SA608SPA-E,F
SW201~221 : 50A-132HS

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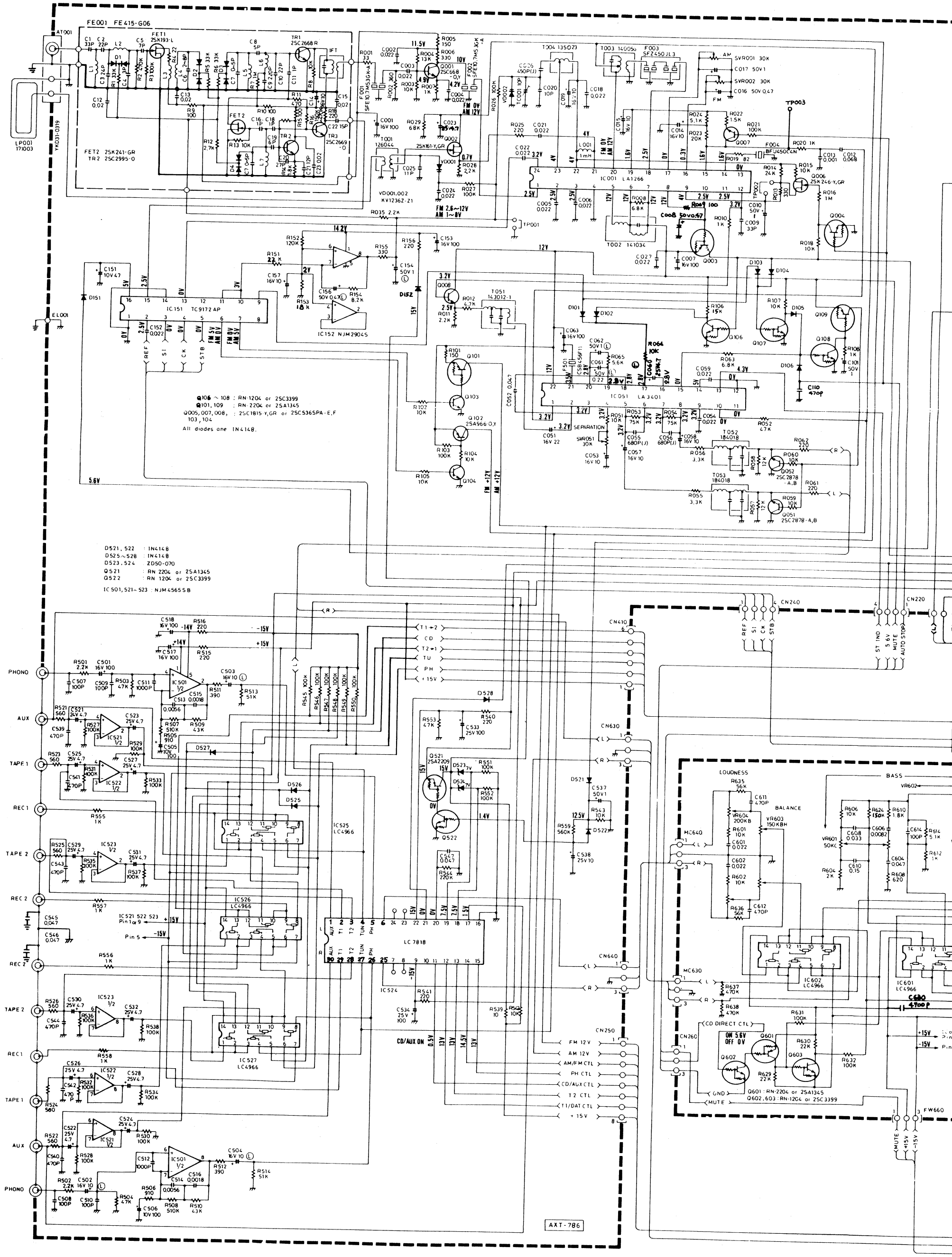
AG-350

AM/FM Stereo Receiver

1st Issue; January 1989



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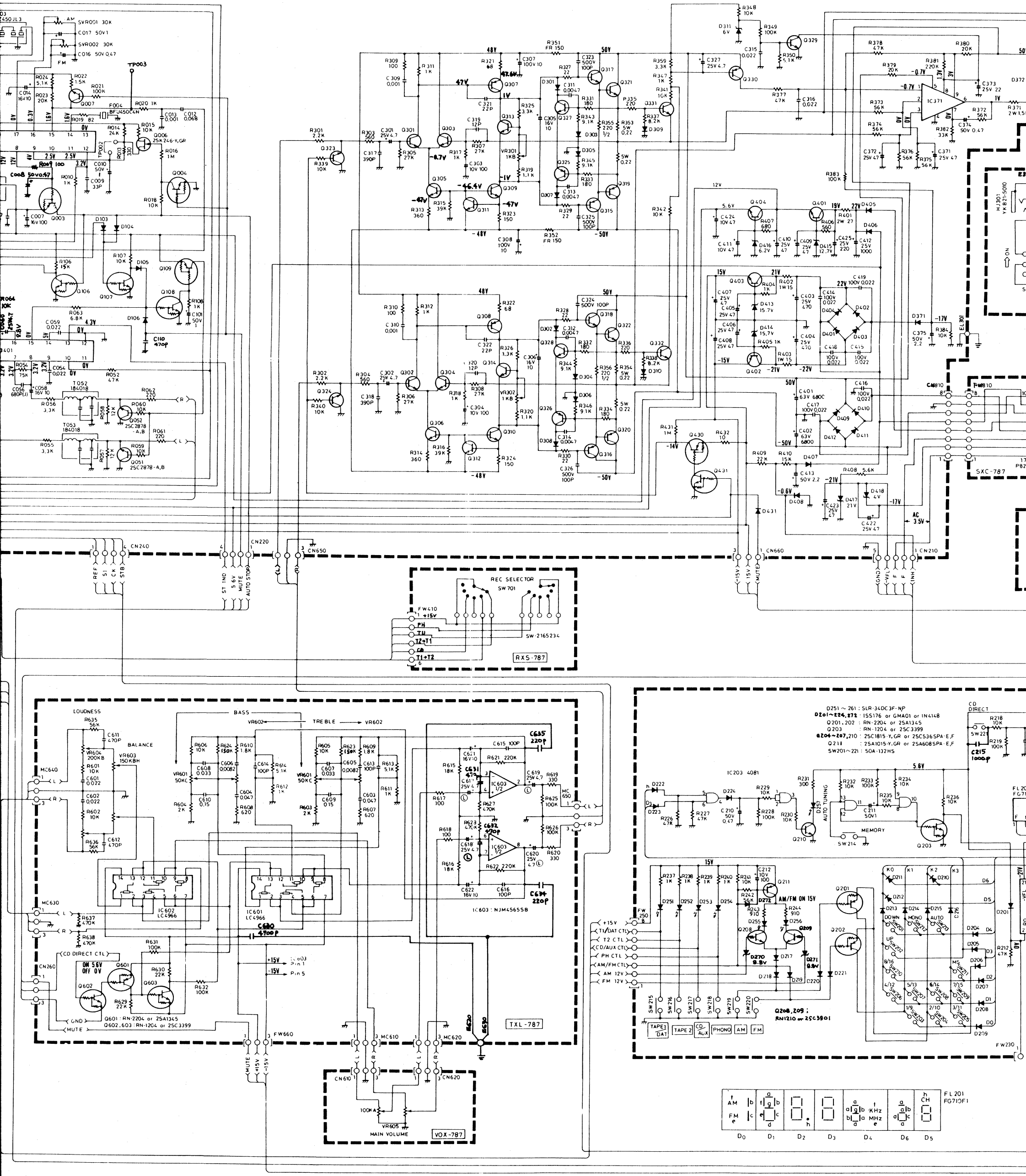

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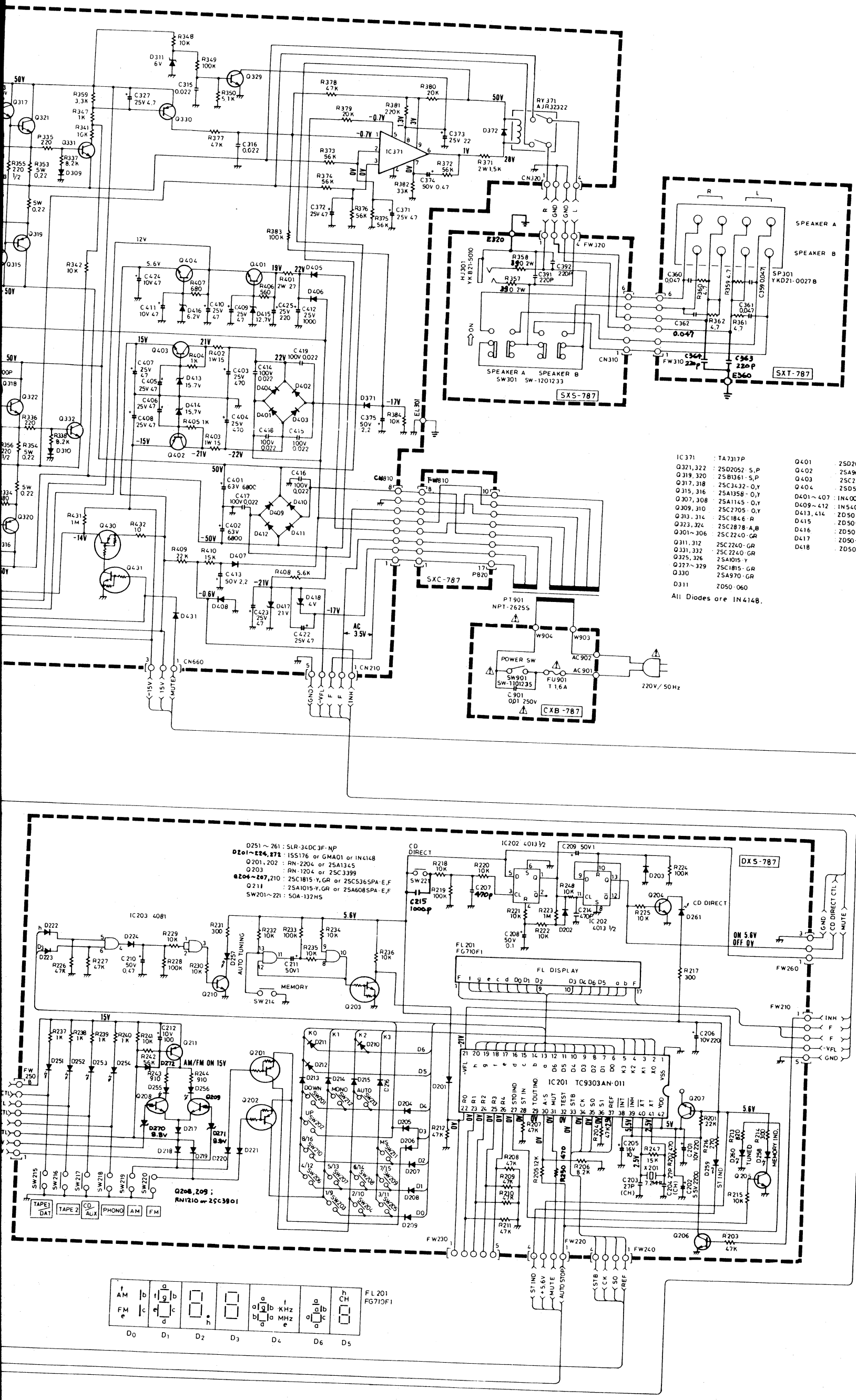

AG-650

AM/FM Stereo Receiver